

Ref: RC/SH

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@PrioryCSA

Dear Student

Across the country year 10 students will be sitting PPE science examinations set by the exam boards during May. For our Year 10 scientists these will be held on the following dates:

Tuesday 16 May - Biology  
Wednesday 17 May - Chemistry  
Wednesday 24 May - Physics

The examinations for students who do the combined science course will each be 1 hour and 10 minutes long whilst triple science students will do papers which are 1 hour and 45 minutes. These papers are being provided by the board to allow students to gain a 'feel' for what the new 9-1 examinations will be like and to gain a measure of students' progress.

Students who put in suitable preparation for the examinations and do well as a result will naturally feel more confident as they progress through the rest of the course. In order to allow students enough time for revision, all lesson time from Tuesday 2 May will be dedicated to revision for these PPEs. It is highly recommended that students spend time revising for these at home. Students who are taking the combined science course have so far done about 230 hours of science learning, for triple scientists this figure is nearer 400. It is therefore vital to success that students put in suitable revision at home to cover this wealth of material; we would suggest a revision allocation of an hour per day from now until 24 May.

On the back of this letter is a list of revision topics in order to help students focus revision on key areas at home. Alongside this there is a document that will help students to revise in the most effective way possible.

Revision guides are available from the Science prep room:

Combined £5.50

Biology/chemistry/physics: £2.75 each

Yours sincerely

Rosie Callander  
Central Leader – Science




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### Triple Science Revision

<b>Biology</b>	<b>Chemistry</b>	<b>Physics</b>
Respiration (aerobic/anaerobic)	Acid reactions	Acceleration
Cells – structure, specialism, growth	Periodic table/elements	Work and power 
Osmosis/diffusion	Conservation of mass	Momentum
Sugar/ Homeostasis	Separation techniques	Stretching springs
Heart & circulation	Equations – completing/balancing	Resultant forces
Photosynthesis	Bonding/metals	Magnets – induction/electromagnets/flux/fields
Transpiration	Bond energies	Atoms
DNA/genetics	Allotropes of Carbon	Energy transfer – SHC/melting/change of state
Auxins/plant hormones		Electrical circuits – current/voltage/resistance/types of circuit
Brain/gland function/endocrine system		

### Combined Science Revision

<b>Biology</b>	<b>Chemistry</b>	<b>Physics</b>
Cell structure	Gas tests	Static electricity
Specialised cells	Electron configuration	Changes in state
Testing for starch	Empirical formula	Energy calculations
Transpiration	States of matter	Circuits- series, parallel
Enzymes	Changes in state	Potential difference
Heart and circulatory system	Chemical vs physical change	Resistance
Contraceptives	Relative formula mass	Specific heat capacity
Surface area : volume ratio	Separating techniques	Spring theory
Hormones- diabetes	Graphite, diamond, graphene	Weight, mass, gravity
Cell division	Atomic structure	History of the atom
Reflex arc	Isotopes	Momentum
Active transport	Oxidation/reduction	Magnetic fields
Microscopes	Electrolysis	Velocity-time graphs
Homeostasis	Conservation of mass	Light dependent resistors
Photosynthesis		Work done and power